

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/096384 A1

(51) International Patent Classification⁷: H01L 27/146,
21/339, 21/8234, 27/088, 29/762

(21) International Application Number: PC/T/JP2005/006226

(22) International Filing Date: 24 March 2005 (24.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-099346 30 March 2004 (30.03.2004) JP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

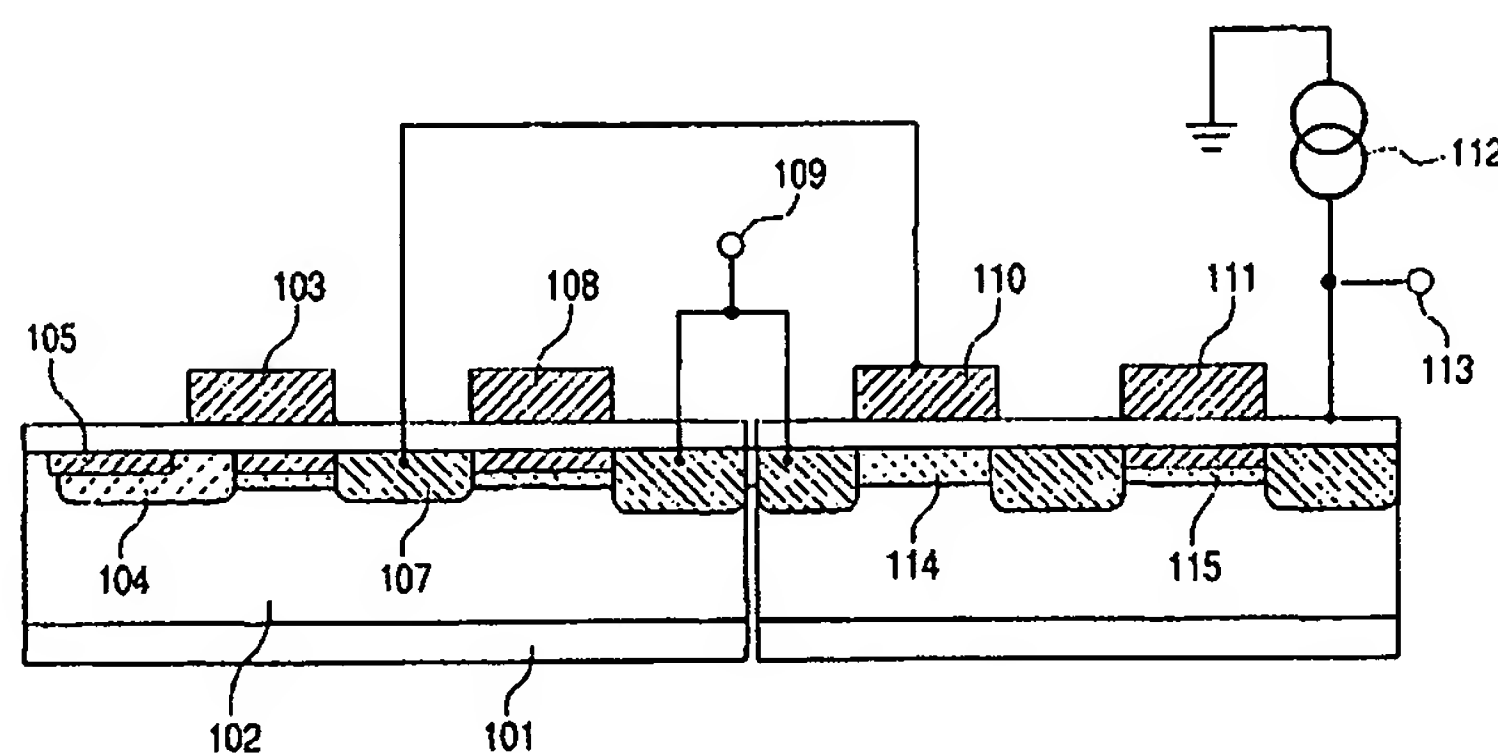
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GIL, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NI, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SEMICONDUCTOR APPARATUS, SOLID STATE IMAGE PICKUP DEVICE, AND IMAGE PICKUP SYSTEM



(57) Abstract: The invention provides a semiconductor apparatus provided with at least one set of buried channel type first conductive type MOS transistor and surface channel type first conductive type MOS transistor on the same substrate, in which a first conductive type impurity region is provided below a gate electrode of the buried channel type and surface channel type MOS transistors and between source drain regions. Further, the invention provides a solid state image pickup device having a photoelectric conversion portion and a pixel including a plurality of transistors formed in correspondence to the photoelectric conversion portion, in a substrate, wherein the plurality of transistors includes a buried channel type first conductive type MOS transistor and a surface channel type first conductive type MOS transistor, and a first conductive type impurity region is provided below a gate electrode of the buried channel type and surface channel type MOS transistors and between source drain regions.